Catch the Hatch with ATU's

Your students will be able to predict

- 1 When the eggs will hatch
- 2 When the fry will swim-up and look for food.

How it works

- When eggs are laid they have 0 Thermal Units.
- The temperature of the water surrounding the eggs is measured (for example the average temperature might be 8^c).
- After one day (24 hours) the eggs have *accumulated 8 Thermal Units*.
- On the second day the temperature of the water is measured (it may be 9^c).
- These two totals are combined now the eggs have accumulated 17 ATU's.
- We then continue... on the third day the temperature of the water is 7^c. Now the eggs are **24 ATU's**. This measurement is taken **every day** at hatcheries for the duration of their care.

Stages of Development		Coho ATU	Chum ATU
	Eyed eggs (delivered to schools)	220	325
	Hatch (eggs become alevin)	400 - 500	475 - 525
	Fry (swim-up and look for food)	700 - 800	900 - 1000

ATU's predict each stage of development

- Prepare a chart to continue measuring the ATU's while you are rearing them in your classroom.
- When the eggs are delivered to your school, the ATU stage for that day will be recorded for you.
- After the eggs arrive take your water temperature every day and enter it on the chart.
- Estimate weekend temperatures for Saturday and Sunday, then on Monday add them to your chart.

Date	Today's Temp.	+ Yesterday's ATU	= Today's ATU
Jan 5	9 C	235	244
Jan 6	10 C	244	255

Example ATU chart

We Calculate

Accumulated Thermal Units (ATU's).

1 thermal unit = 1 degree Celsius.

ATU's = the degrees accumulated

over one day.